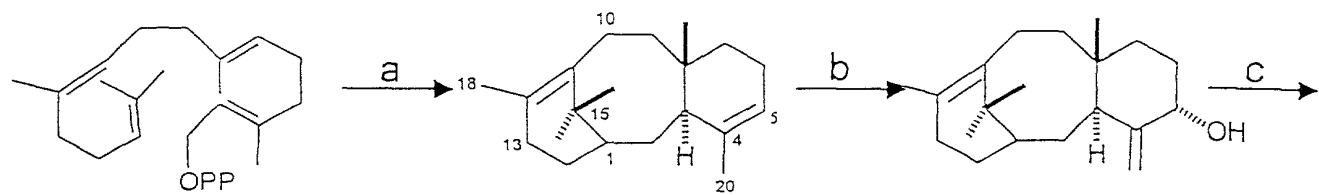


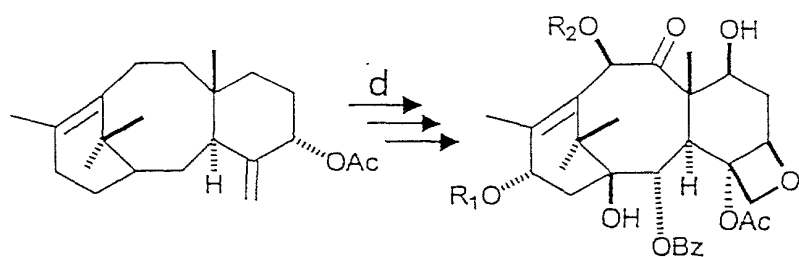
Figure 1



geranylgeranyl diphosphate

taxa-4(5),11(12)-diene

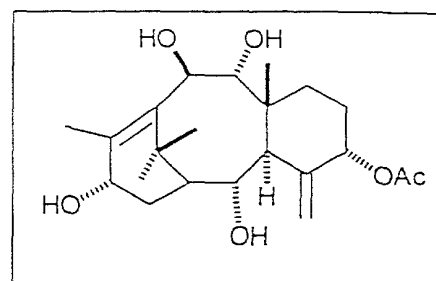
taxa-4(20),11(12)-dien-5 α -ol



taxa-4(20),11(12)-dien-5 α -yl acetate

e
f,g

10-deacetyl baccatin III:
R₁ = H, R₂ = H
baccatin III:
R₁ = H, R₂ = Ac
Taxol:
R₁ = *N*-Bz phenylisoserinyl
R₂ = Ac



putative taxadien-pentaol
monoacetate derived from
taxadien-5 α -yl acetate

Figure 2

Tryptic Peptide Fragment	Peptide Sequence
SEQ ID NO: 29	TTLQLSSIDNLPGVR
SEQ ID NO: 30	ILVYYPPFAGR
SEQ ID NO: 31	FTCGGFVVGVSF
SEQ ID NO: 32	KGLAEIARGEVK
SEQ ID NO: 33	NLPNDTNPSSGYGN

Figure 3

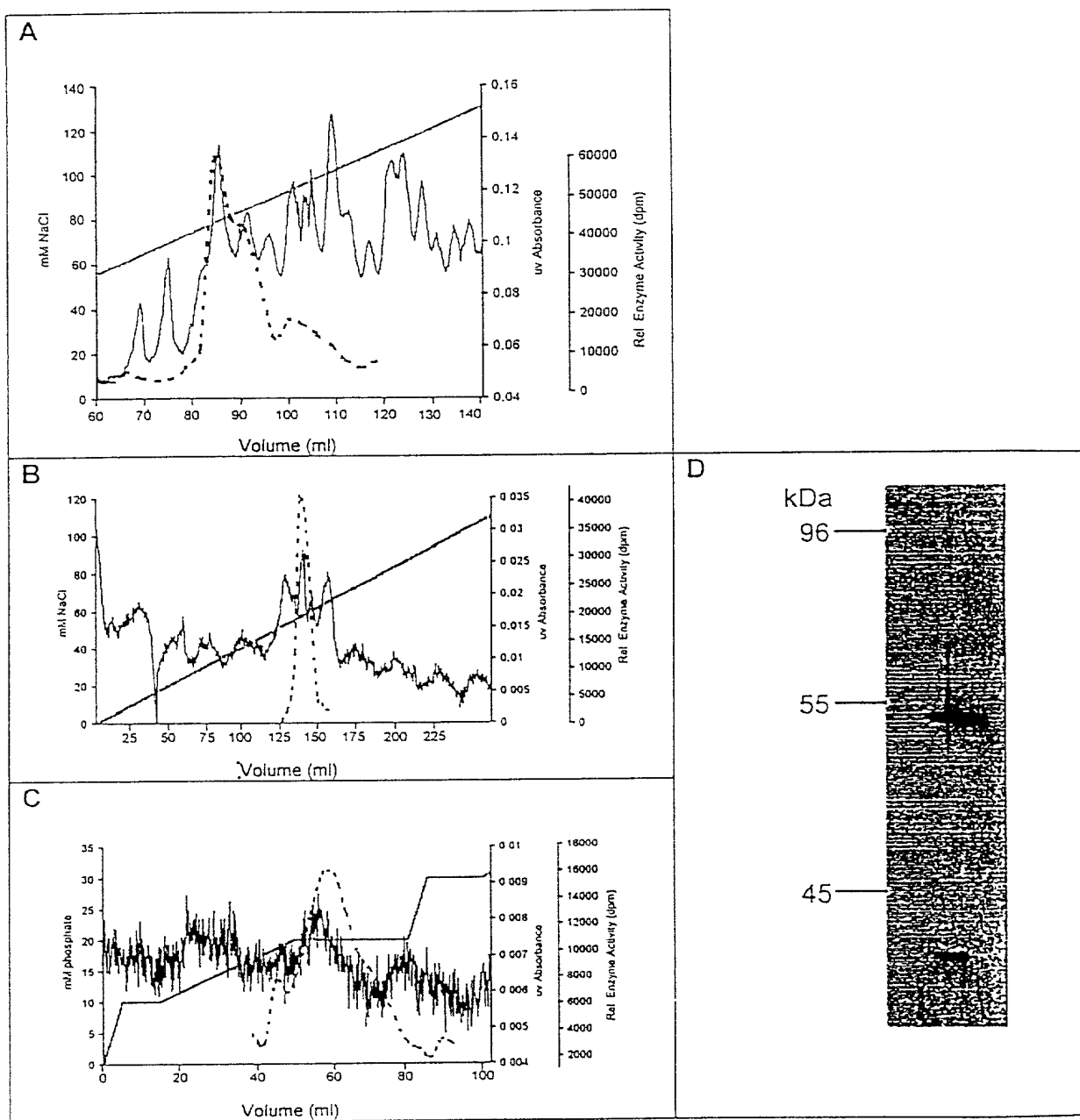


Figure 4.

FROM PEPTIDE FRAGMENT SEQUENCE 2

NH2- I L V Y Y P P -COOH
5' ATI CTI GTI TAT TAT CCI CC 3'

T C C C C
A A

AT-FOR1
(SEQ ID NO: 34)

NH2- Y Y P P F A G -COOH
5' TAT TAT CCI CCI TTT GCI GG 3'

C C C C C C
A A A

AT-FOR2
(SEQ ID NO: 35)

FROM SEQUENCE HOMOLOGY CONSIDERATIONS

NH2- F Y P F A G R -COOH
5' TTC TAT CCI TTC GCI GGI AG 3'

T C T C C
A A

AT-FOR3
(SEQ ID NO: 36)

NH2- Y Y P L A G R -COOH
5' TAC TAT CCI TTI GCI GGI AG 3'

T C C C C C
A A

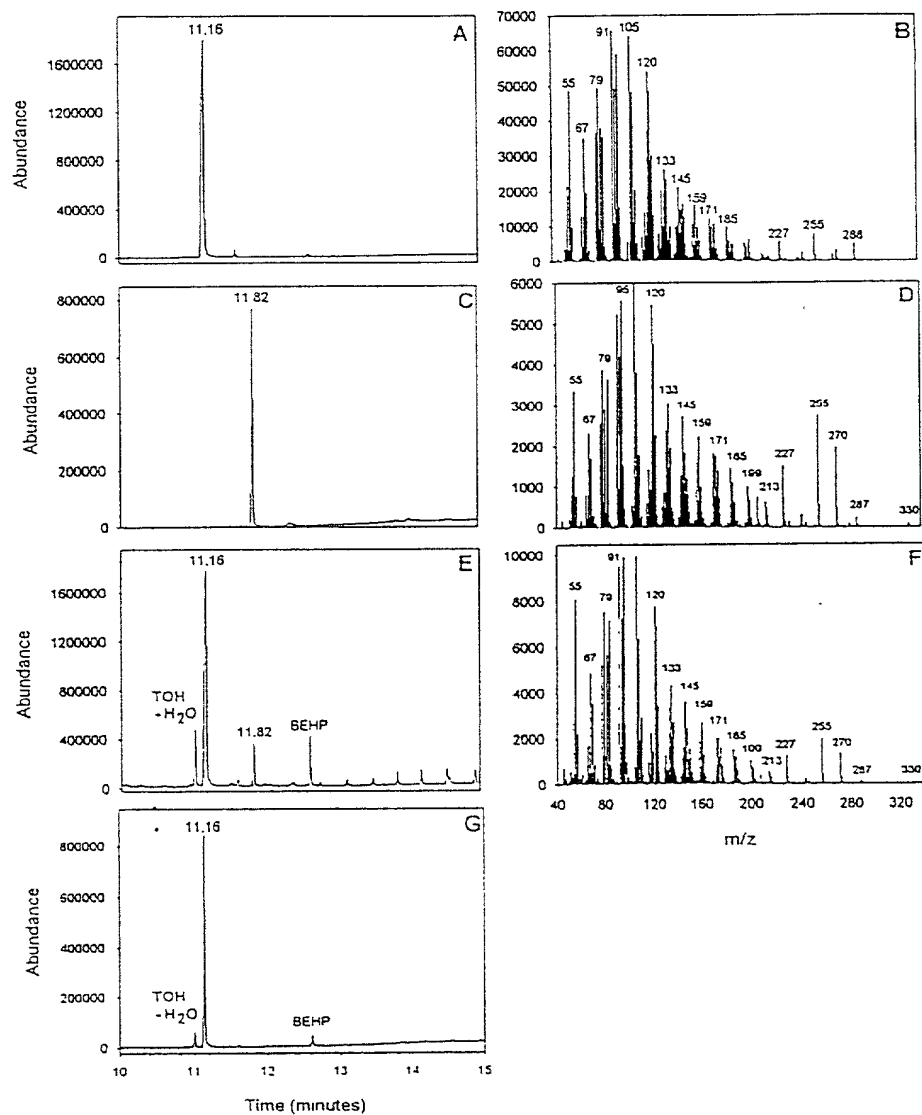
AT-FOR4
(SEQ ID NO: 37)

NH2- D F G W G K P -COOH
3' CTA AAA CCI ACC CCI TTT GG 5'

G G C C C
A A

AT-REV1
(SEQ ID NO: 38)

Figure 5



[illegible]

Figure 6
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TAX1 KTTLGQSGSID NLPVNGSIF NALLIYNASP SPTIISADP. AKPI REAIAKILVY YPFAORT. R ETENG 90
TAX2 KNIHLHSPID NKT. . . RGLT NLSVYNASQ RVS.VSADP. AKTI REAIAKILVY YPFAORT. R NTENG 84
aab61522 ILSSPHYTGA LLYAADPQN LIGFSTEET. SLK KKSLSBKTLPPI YPFAORT. R 86
aab61523 KRIILNLSLID ILSSPHYTGA LLYAADPQN LIGFSTEET. ISH KKSLSBKTLPPI YPFAORT. R 86
aab65293 DLKLSVBDLP NLSCHYIQKG CLFTCPH. LPLPAL. ISH KKSLSBKTLPPI YPFAORT. R 86
aab97723 NLSLILNLSLID DIGARVFTP SVYFYPSTINH RESFV. LKRL QDALSEVLYP YPFAORT. R 100
aac17079 M. . . LPLNLSLID LILPLNLSLID QIQIFFYVGL IFHY. TSDNSDIT. YETD KTAALLETYS YPFAORT. R 208
aac10062 LOKLNLNLSLID QIQIFFYVGL IFHY. TSDNSDIT. YETD KTAALLETYS YPFAORT. R 208
nac27152 RKSLSLID QILN. . . FDV OTVHFRRPK EFFEMV. SEKL RKAIVKRLDA YPFAORT. R 97
aac9311 LSRYNLSLID QNIYQCVSV GFEYHPDGI EISTIRE. QD QNSLSBKTLPPI YPFAORT. R 87
aad12025 . GRPPLAEWD QV. GITIHI PLYFYDKPS ESFGNHV. VEID KTSLSBKTLPPI YPFAORT. R 82
caa20531 . ETLSLID NDFHEVHYA TIYVFKANGK NLD. DP. VSLD RKAIVKRLDA YPFAORT. R 92
caa64636 RETKLSLID DQEGLR. . . F QIPVIAQFYNG DSHGRKDP. VKVI KKAIAETLVF YPFAORT. R 92
caa94432 YEFKQSLID DQOSLR. . . L QIPVIAQFYNG DSHGRKDP. VKVI KKAIAETLVF YPFAORT. R 92
caa606427 . KSTWLSLID HILRTYSHT GAVLIYKQPD NH. EDNIHPS SSMYFDANIL IEALSKALVP YPFAORT. R 90
cab10318 LQTLQSLID HILPPVITVA FLFYTKNDL. ISQENT. SHKL KTSLSBKTLPPI YPFAORT. R 85
cab10319 R. . . LQSLID LYGCPGIYVST IFFY. D LITESSEVF. SEHL KTSLSBKTLPPI YPFAORT. R 79
cab40761 HDKRLTILS HLDRCPLILH YSVFFYKNTT TRFDOSV. FSHD KLGLEETYSV YPFAORT. R 89

TAX1 DLEVECTGE. GANLEBAMAD NEASVLGD. F DDSNPSFQ. Q LFLSLPLDTH F. KDLS DLVVGVTRST CO. 05 156
TAX2 DLEVECTGE. GAVFVBAMAD NDBSVLGD. F HEYDPSFQ. Q LVFHLREDVN I. EDLH DLVVGVTRST CO. 05 150
aab61522 AVFIEARVDH. HSEFLKG. PVPE. SLLEL. IF. VEAKS RE. AVTWP VLLIQARFES CO. 01 149
aab95293 NVEFLTONDAG ADFVFAQAKS INVSVDIAGI DVPD. VVKCF FTYDR. AVS YE. GHHNP ILAVGVTRST CO. 01 153
aab97723 KLEVFGELEQ GVLNVSANSS NDBADLGDLT VPFPALPLI FRNPGEEAYK I. LEMP VLLIQARFES CO. 01 169
aac17079 EPEILQNNRG VDFEAGAD. VEDHRELHY. DPDE. SIACL VPIKKG. VLLIQARFES CO. 01 163
aac10062 DCVIEONBQ IGYVETAFD. VEDHRELHY. EESH. HLDL VGL. SGFL SE. TETPD VLLIQARFES CO. 01 144
aac27152 RLDVDCNGA. GAGFVTAASD YTELELGD. L VYPPPAFQOL VTSQLO. SLF KD. DQD VLLIQARFES CO. 01 163
aac9311 DY. INGNDDG IEFVEVRI. R GRNNDILKY. ELRS. YARDL VLPKRVVGS ED. TTA. IVOLSHED CO. 01 150
aad12025 REFELNENAE. GVEFIEAESE GKLSDFKD. F S. PTFEENL. H. PQVHYKNP IE. TIPL VLLIQARFES CO. 01 147
caa20531 KQLVNLGE. GVPFEVATST LDBLSLH. YIENLDDO VALRLVPEIE IDYESNVCH VLLIQARFES CO. 01 159
caa64636 KLMVDCTGE. GIMFVBADAD VTELEFMDTL PYSLSHQNH IINNALNSDE V. LNSP VLLIQARFES CO. 01 153
caa94432 RYEIDONAE. GALFVEAEES NVLEDFGD. F R. PHDELHRY HVPICDYSKG IS. SFP VLLIQARFES CO. 01 156
cab06427 RYEIDONAE. GALFVEAEES NVLEDFGD. F R. PHDELHRY HVPICDYSKG IS. SFP VLLIQARFES CO. 01 152
cab10318 . TVDCTDEG AIFVDARVNH CPLETEFLKC. POFD. ALQOL LPLDVPPHRY VA. AATWP VLLIQARFES CO. 01 152
cab10319 . SISCNDEG AVFTEARTDL. LPLPDLRN. LHTD. SLSCF LPTLAAGE. S. PAAMP VLLIQARFES CO. 01 143
cab40761 KLNIRCONDDG AVHVEAVATG VKLSLGDLT QNHFFELHY YKPSLDCGDS V. MP VLLIQARFES CO. 01 156

Figure 6
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TAX1	VVQVSFHH	HGV	CDORGAAQSL	KGLEHAR	G	EVKLS	LEJIN	HELVLKLD	..	DP	KYLQF	FF	213	
TAX2	VVQTRFHH	SV	SHQKIGQL	KCHGEMAR	G	EFKPS	.....	LEJIN	HEHVKPE	..	DI	HYLQF	DF	207
aa061522	ALQIGLSHKL	CDALSGITFV	NSVAAAFAR	Q	TDE	.....	ITQSF	DLAKHFP	CD	IEH	.....	LN	95	
aa061523	VITICVSHKI	TDATSLANFI	RGHAESSRG	..	L	.....	GITHPSF	TASEVEPKPL	DEL	.....	PS	202		
aa095293	FICQSVNHAV	TDDGSLMNTI	HTFAEVS	SGA	KHVT	.....	R	QDFTRESVL	ISPAVLKVPQ	GGPKVTFDEN	APLRE	223		
aa097723	SLQIRLCHCI	CDQFGAHQSL	GSAAATDKTG	KLIA	AD	.....	TEVVM	DEFTFKPR	..	HF	PHVKY	PH	227	
aa017079	VVQCTFDHNV	ADVYSHNHSL	LSVAEIS	SD	VPI	.....	SCV	QSF	RSLSLHPRRP	LYHDFSIDQI	YHPVT	330		
aa018062	VIAQAFHII	GDHFTHSTH	NSHAKAC	SHVG	IKL	.....	VAHDTF	GLAPLHPSAK	VLH	.....	VAF	PH	190	
aa027152	HHQISTHWT	FDDLSFKTL	ENHLSLH	..	EKPLS	.....	TPCH	DITLKRADP	PS	..	VAF	PH	219	
aa099311	AVAFGISHNV	ADOGTIASFH	KDHAAS	ACYL	SSS	.....	HHVFTPL	VSDSIFPRQD	NI	.....	CE	206		
aa012025	SLSVHVSNAI	VDDQSAH	SEHGRAR	..	GEPLF	.....	TVDFL	DKILVAGLP	LPPFVSPKF	DKK	..	CE	208	
aa020531	TITALTNAV	CDQGYVAQI	HALTELA	AG	KTEFS	.....	VKSVH	QERLVCKID	HKF	GRVPG	SHI	..	220	
aa046336	IFALRLNTH	SDAFGLVQFH	TAVGEHAR	G	GSAPS	.....	ILPVM	QRELHAR	..	HF	QVTC	THH	216	
aa044432	IFQLCFHDTI	ADQFGIVQSH	KATAEIAR	G	AFAPS	.....	ILPVM	QRELHAR	..	HF	QVTC	THH	210	
aa060427	SICFAQHNV	CDQGHAFESH	NSHARAK	..	GLFPA	.....	ILPVM	QRELHAR	..	HF	QVTC	THH	213	
aa010318	ALICITDKI	ADNASISTEI	RSMAATAR	GE	NDA	.....	AHES	VEF	ACAHFYPPAH	EAF	..	YE	196	
aa010319	AVSVSVSHKI	CDIASLVTY	KDHAATITAKG	KSN	.....	STIE	..	F	AETIYPPPP	SHH	..	YE	196	
aa040761	SIGICTSHSL	FDDISAVEFI	HAHSHSHH	HKSNSKITNK	KEDVVIK	PH	DRHLVNRD	AVRETHAAI	CHLYO	231			231		
TAX1	EFLRAP	..	SIV	..	EKIVOTY	II	DFET	NYIKO	SV	HEFC	.....	KEF	251	
TAX2	DFIRP	..	LHL	..	EKSIOASHVI	SFER	NYIKR	CH	HEFC	.....	KEF	245		
aa061522	HATGITKE	..	NIHT	..	RRVVF	LRSY	RESURE	RTSGH	K	IR	AT	133
aa061523	KPMORKEVE	..	ENS	CVT	..	RRVVF	DASK	IKKRA	K	ASRN	244
aa095293	RIFSRSRESI	..	QELKAVVHK	..	RRVVF	DHGE	DBVEL	LGRQSHDKLH	GKENGIL	LTEN	LES	FGHDA	VSKP	293	
aa097723	EYLFLEERSH	..	LTHSLWD	..	TKPLQK	YAI	SKEFOCVKS	IA	QGED	..	..	..	..	273
aa017079	SLPPOETIH	..	FEHLAS	..	..	NI	YI	KAHALQELQ	OT	LASSSKH	..	..	..	273
aa018062	PPPSFEFG	..	VKFS	..	RRVVF	NEHA	ITNRK	FATEEDGDD	D	..	..	..	..	244
aa027152	EL	VKFDQC	ETITVEFAIS	..	ENHDE	IKSKL	SSEQ	KKLKE	RA	SET	..	..	..	265
aa099311	QFPTSK	..	HCVE	..	RRVVF	PEA	LEKKS	KAVELG	..	..	..	..	..	265
aa012025	EFDQPFLLIG	..	ETDNVEERKK	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	..	267
aa020531	D	..	GFLA	TSAYLPT	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	267
aa046336	EYDEVDRD	TKG	TIIFL	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	..	267
aa044432	EYDQVVDHKS	..	GLIPV	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	..	267
aa060427	QFE	..	LPHELIDGKT	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	..	267
aa010318	KLPADQAG	..	KRS	SIT	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	267
aa010319	QFPTSDSDH	..	ITSKYVL	..	RRVVF	STIS	LOMLRS	KANGSKH	..	..	..	..	..	267
aa040761	LKQAMHTYQ	..	EQRNRL	ELPD	SGFV	MTBEL	NGDA	LESKK	KSLLG	276	

[illegible][illegible]

Figure 6
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TAX1	G. FDEVD	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	430	
TAX2	G. FYEAD	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	431	
na061522	EVY.	EA	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	432
na061523	GLY.	DA	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	433
na095293	DMY.	DN	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	434
na097723	EHYETA	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	435
na017079	PVN.	OV	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	436
na018062	PLY.	EV	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	437
na027152	G. FAEVEY	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	438	
na09311	PFY.	DV	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	439
na012025	P. MYGL	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	440
na020331	GMFGSH	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	441
na064636	G. FGEV	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	442
na094432	G. VERNV	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	443
na006427	P. YQAH	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	444
na010318	PLY.	EAS	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	445
na010319	PFY.	EVD	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	446
na040761	P. FHN	OS	ONAV	SVSPVQ	QOS.	ALANQ	HYFL	FLKPSK	HKPD	IKILH	FL	LSK	KS	KIENE	ANHK	KYVAK	447
TAX1	V.	ICNSKL	...	...	...	...	...	...	...	...	...	...	...	...	...	448
TAX2	ICNSKL	VHVSVS	...	...	...	...	...	...	...	...	...	...	...	...	...	449
na061522	VLI.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	450
na095293	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	451
na097723	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	452
na017079	LKI.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	453
na018062	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	454
na027152	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	455
na09311	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	456
na012025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	457
na020331	H	...	...	...	...	...	...	...	...	...	...	...	...	...	...	458
na064636	VNSNYAIR	PAI.	...	...	...	...	...	...	...	...	...	...	...	...	...	459
na094432	AVDSHHQTIQ	SASK	460	
na006427	461	
na010318	VLI.	462	
na010319	VVA.	463	
na040761	464	

Figure 6
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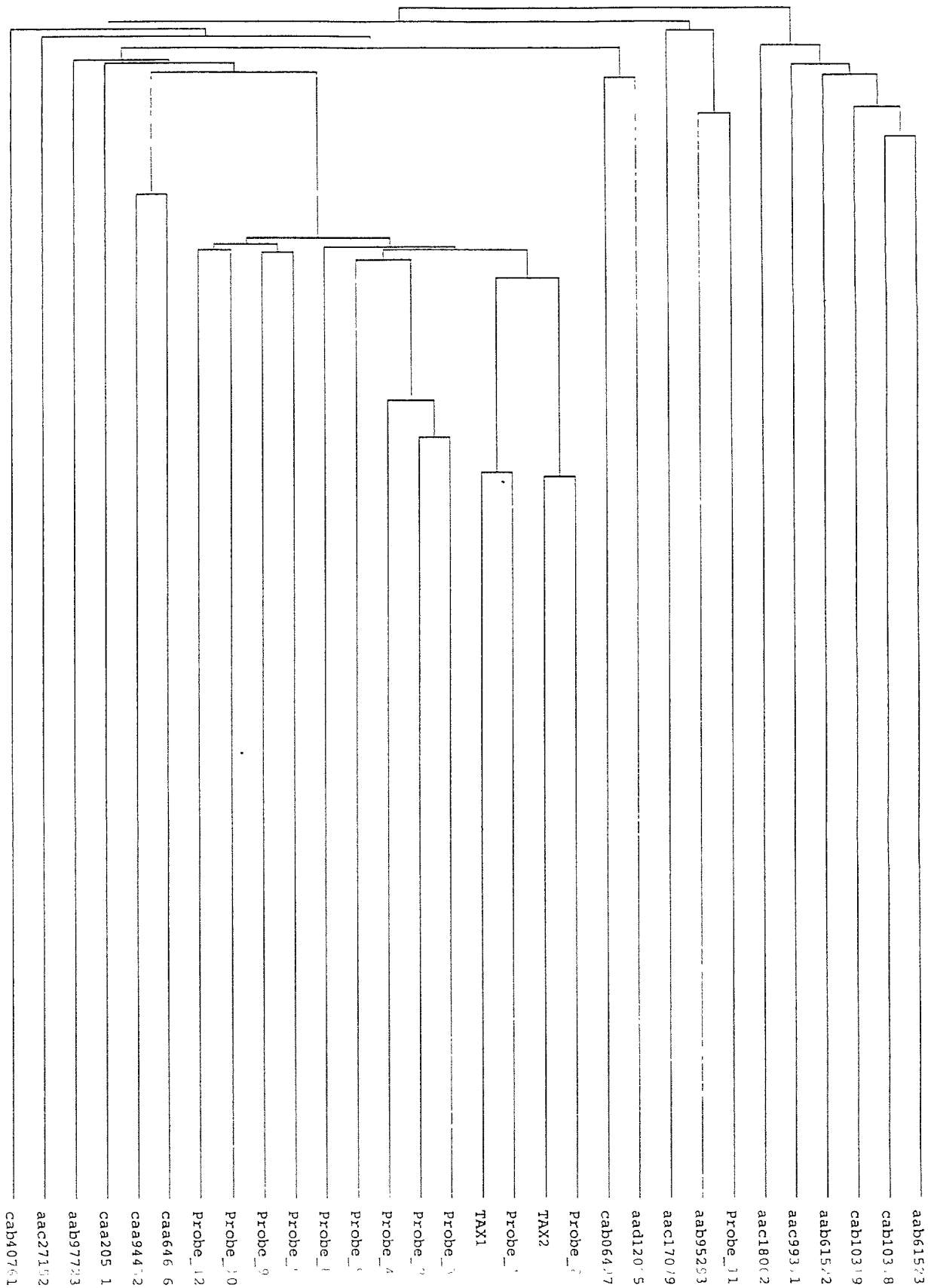


Figure 7

Figure 8

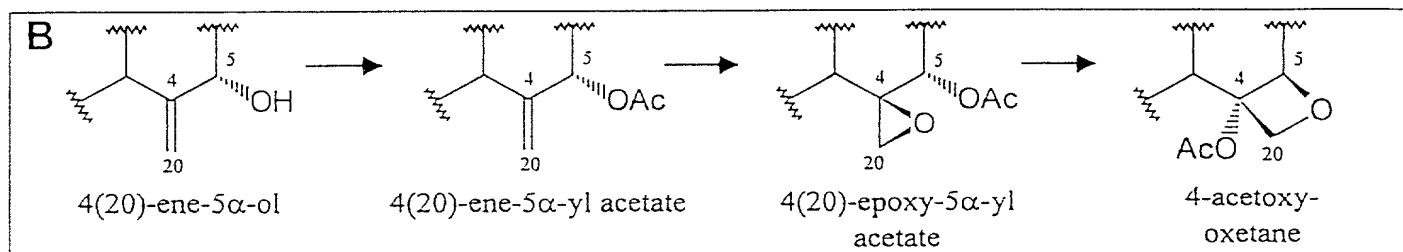
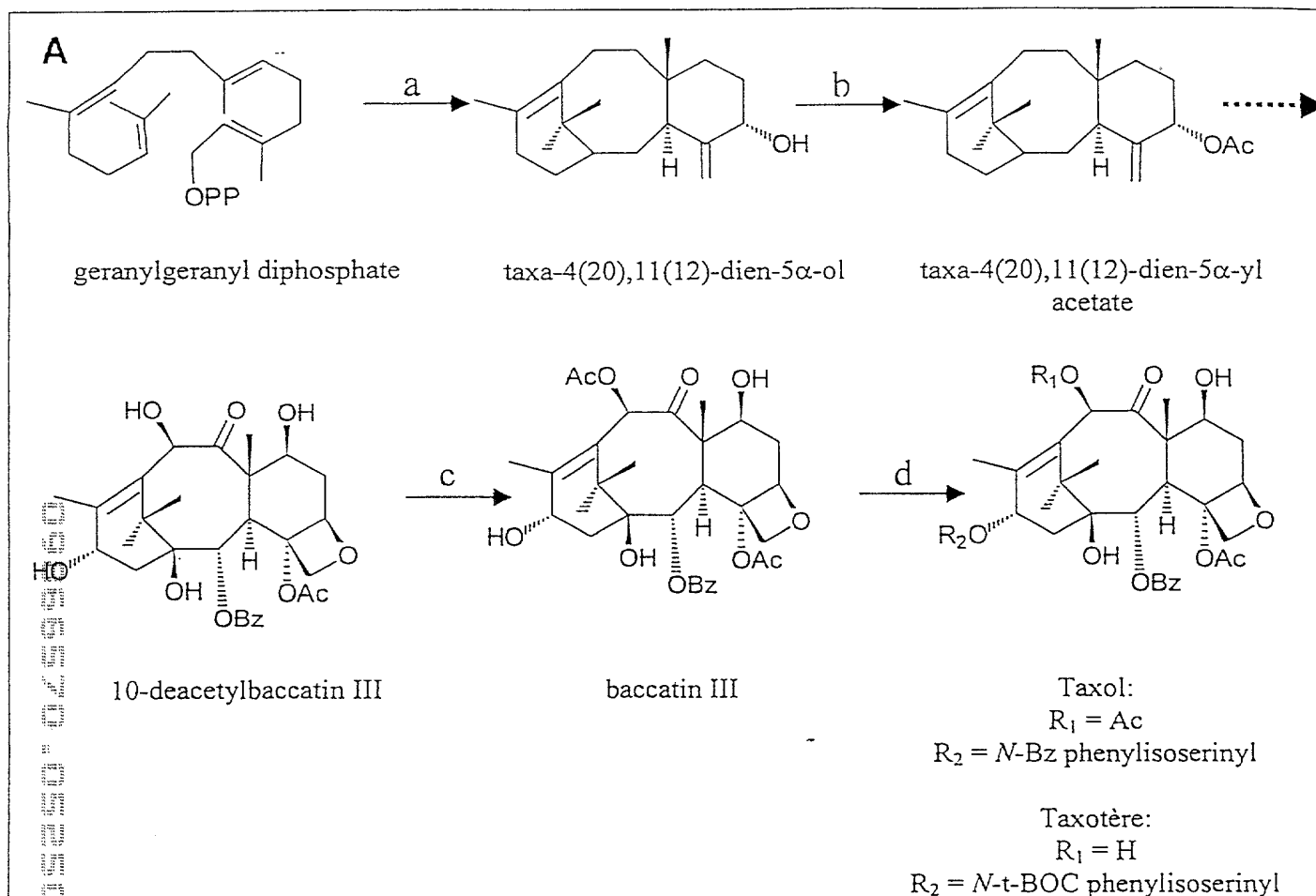


Figure 9

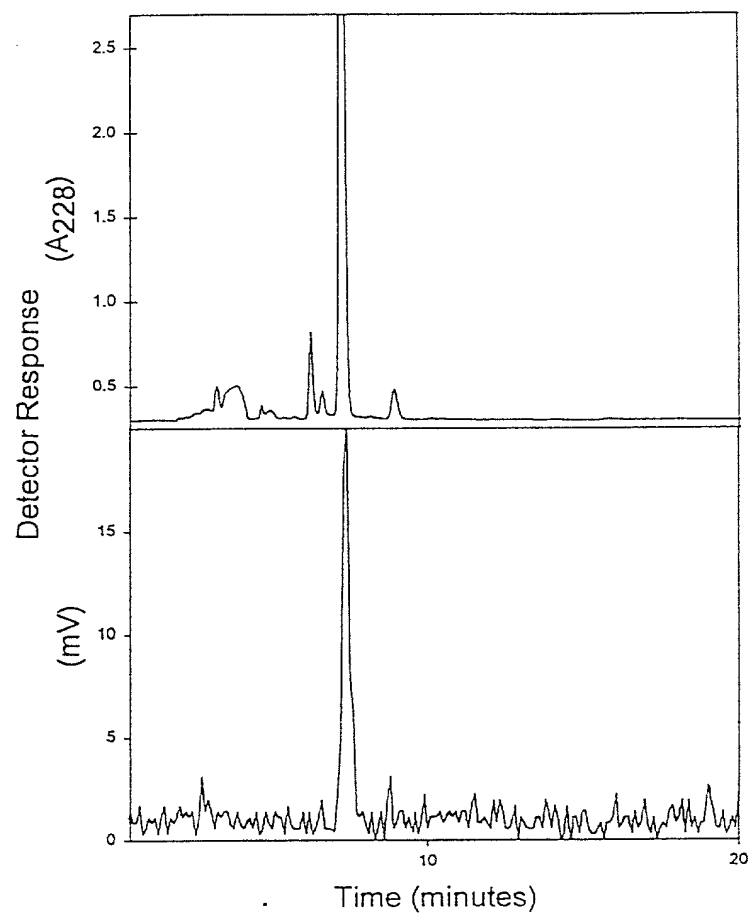


Figure 10

